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## The Twentieth International Conference on Networks ICN 2021

April 18 - 22, 2021 - Porto, Portugal

<http://www.aria.org/conferences2021/ICN21.html>

### Important deadlines:

|                         |                   |
|-------------------------|-------------------|
| Submission (full paper) | February 8, 2021  |
| Notification            | February 28, 2021 |
| Registration            | March 11, 2021    |
| Camera ready            | March 16, 2021    |

### Tracks:

#### Communication

Communication theory; Communications switching and routing; Communications modeling; Communications security; Computer communications; Distributed communications; Signal processing in communications; Multimedia and multicast communications; Wireless communications (satellite, WLL, 4G/5G/6G, IoT and sensor networks); Vehicular communications

#### New Internet technologies

SDN, SDX, NFV; 5G/6G and advanced mobile Internet; O-RAN; Internet of X (everything, things, people, etc.); Internet, Virtualization and Cloud; Internet and Big Data; Sensing and sensor networks; Energy-aware networks; Content-oriented networking; Cellular cognitive networks; Future routing mechanisms

#### Networking

Next generation networks [NGN] principles; Storage area networks [SAN]; Access and home networks; High-speed networks; Optical networks; Peer-to-peer and overlay networking; Mobile networking and systems; MPLS-VPN, IPsec-VPN networks; Vehicular Networks; GRID networks, Cloud and Visualization; Broadband networks; Small cell networks; Sensing and sensor networks

#### Slicing and 5/6/7G technologies

Network slicing models; 5G Network slicing Architecture; 5G/6G Networks slicing; End to End (E2E) network slicing; Automated networks slicing; Network Slice as a Service(NSaaS); Service slicing; IoT service slicing; Slicing-as-a-Service (SlaaS); Slicing and orchestration; Latency-sensitive 5G services; Differentiated slice-based 5G services; 5G E2E (End to End), 6G Cellular data networks; Indoor 5G Open Radio Access Network (O-RAN); 5G mmWave; 7G and 8G network and High speed internet. Network slicing market. Networks slicing ROI (Return on Investment); 6-7-8G and ROI.

#### Computation and networking

Cloud computing; Fog computing; Edge computing; Multi-Access Edge Computing (MEC); Internet computing; Mobile computing; Ubiquitous computing; Real-time computing; Big data-based computing; Services computing and opportunistic computing; High Performance Computing (HPC); Fast data processing; Fast switching and routing protocols; Parallelization of algorithms and applications; Energy-efficient High Performance Computing

#### Networking metrics

Quality of service, service level agreement [QoS/SLA]; Reliability, availability, serviceability [RAS]; Traffic engineering, metering, monitoring; Voice over IP services; Performance evaluation, tools, simulation; Network, control and service architectures; Network signalling, pricing and billing; Network middleware; Telecommunication networks architectures; On-demand networks, utility computing architectures; Applications and case studies

#### Next generation networks (NGN) and network management

NGN protocol design and evaluation NGN Standard Activities [ITU, TMF, 3/4/5GPP, IETF, etc.]; NGN Device Instrumentation; Network Management, scheduling and policy; NGN policy-based control; Networks policy-based management; Management of autonomic networks and systems; Delay tolerant networks; Mobility management

#### Cognitive radio

Fundamentals; Cognitive radio and emerging technologies; Cognitive Radio for 5G; Cognitive and Intelligent Internet-of-Things (IoT) for 5G; Energy-aware, smart sensing and capacity-aware in advanced technologies; Mechanisms and protocols; Processing and devices; Measurement and management; 5G Cognitive operations; Applications